HDFS Command Guide

# Q:

Create a directory in HDFS.

# A:

hdfs dfs -mkdir /path/to/directory

# Q:

Create an empty file.

# A:

hdfs dfs -touchz /path/to/file

# Q:

Copy files/folders from local file system to HDFS store.

# A:

hdfs dfs -put /local/path /hdfs/path

# Q:

Print file contents.

# A:

hdfs dfs -cat /path/to/file

# Q:

Copy files/folders from HDFS store to local file system.

# A:

hdfs dfs -get /hdfs/path /local/path

# Q:

Move file from local to HDFS.

# A:

First, copy the file, then delete the local file if necessary:  
hdfs dfs -put /local/path/to/file /hdfs/path  
rm /local/path/to/file

# Q:

Copy files within HDFS.

# A:

hdfs dfs -cp /hdfs/source/path /hdfs/destination/path

# Q:

Move files within HDFS.

# A:

hdfs dfs -mv /hdfs/source/path /hdfs/destination/path

# Q:

Size of each file in directory.

# A:

hdfs dfs -du -h /path/to/directory

# Q:

Total size of directory/file.

# A:

hdfs dfs -du -s -h /path/to/directory\_or\_file

# Q:

Last modified time of directory or path.

# A:

hdfs dfs -stat "%y %n" /path/to/directory\_or\_file

# Q:

Change the replication factor of a file/directory in HDFS.

# A:

hdfs dfs -setrep -w <replication-factor> /path/to/file\_or\_directory

# Q:

List the contents of a directory in HDFS.

# A:

hdfs dfs -ls /path/to/directory

# Q:

Remove a file from HDFS.

# A:

hdfs dfs -rm /path/to/file

# Q:

Change File Permissions.

# A:

hdfs dfs -chmod 755 /path/to/file\_or\_directory

# Q:

Changing File Ownership.

# A:

hdfs dfs -chown user:group /path/to/file\_or\_directory

# Q:

Checksum Calculation.

# A:

hdfs dfs -checksum /path/to/file

# Q:

File Concatenation.

# A:

Not directly supported in HDFS. Typically, files are concatenated during processing (e.g., with MapReduce or Spark).

# Q:

File Compression/Decompression.

# A:

Handled at the application level. HDFS stores files but does not directly compress or decompress them.

# Q:

File Block Location Information.

# A:

hdfs fsck /path/to/file -files -blocks -locations

# Q:

File Encryption/Decryption.

# A:

HDFS supports encryption at the storage level but managing encryption/decryption is handled through HDFS encryption zones, not through simple commands.